



REC'D PCT/PTO 23 JUL 2003 #5

SEQUENCE LISTING

<110> INCYTE CORPORATION
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 LY, Dyung Aina M.

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<141> 2001-04-24

<150> US 09/181,317

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Gln	Val	Thr	Gly	Lys	Met	Pro	Ile	Leu	Ser	Tyr	Trp	Pro	Tyr	Gly
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Cys	His	Cys	Gly	Leu	Gly	Gly	Arg	Gly	Gln	Pro	Lys	Asp	Ala	Thr
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Asp	Trp	Cys	Cys	Gln	Thr	His	Asp	Cys	Cys	Tyr	Asp	His	Leu	Lys
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Thr	Gln	Gly	Cys	Gly	Ile	Tyr	Lys	Asp	Tyr	Tyr	Arg	Tyr	Asn	Phe
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Ser	Gln	Gly	Asn	Ile	His	Cys	Ser	Asp	Lys	Gly	Ser	Trp	Cys	Glu
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Gln	Gln	Leu	Cys	Ala	Cys	Asp	Lys	Glu	Val	Ala	Phe	Cys	Leu	Lys
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Arg	Asn	Leu	Asp	Thr	Tyr	Gln	Lys	Arg	Leu	Arg	Phe	Tyr	Trp	Arg
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Leu	Ser	Val	Ala	Gln	Ala	Gly	Val	Gln	Trp	Arg	Asp	Leu	Gly	Ser
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Leu	Gln	Pro	Pro	Pro	Leu	Gly	Phe	Lys	Arg	Phe	Ser	Cys	Leu	Ser
				65					70					75
Leu	Pro	Ser	Ser	Trp	Asp	Tyr	Arg	Leu	Arg	Glu	Leu	Ala	Val	Arg
				80					85					90
Leu	Gly	Phe	Gly	Pro	Cys	Ala	Glu	Glu	Gln	Ala	Phe	Leu	Ser	Arg
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Arg	Lys	Gln	Val	Val	Ala	Ala	Ala	Leu	Arg	Gln	Ala	Leu	Gln	Leu
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Ala	Thr	Gly	Gly	Gly	Ile	Arg	Ala	Met	Thr	Ser	Leu	Tyr	Gly	Gln
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Leu	Ala	Gly	Leu	Lys	Glu	Leu	Gly	Leu	Leu	Asp	Cys	Val	Ser	Tyr
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Ile	Thr	Gly	Ala	Ser	Gly	Ser	Thr	Trp	Ala	Leu	Ala	Asn	Leu	Tyr
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Glu	Asp	Pro	Glu	Trp	Ser	Gln	Lys	Asp	Leu	Ala	Gly	Pro	Thr	Glu
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Leu	Leu	Lys	Thr	Gln	Val	Thr	Lys	Asn	Lys	Leu	Gly	Val	Leu	Ala
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Pro	Ser	Gln	Leu	Gln	Arg	Tyr	Arg	Gln	Glu	Leu	Ala	Glu	Arg	Ala
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Arg	Leu	Gly	Tyr	Pro	Ser	Cys	Phe	Thr	Asn	Leu	Trp	Ala	Leu	Ile
				230					235					240
Asn	Glu	Ala	Leu	Leu	His	Asp	Glu	Pro	His	Asp	His	Lys	Leu	Ser

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Tyr Cys Ala Leu	Asn Thr Lys Gly Gln	Ser Leu Thr Thr Phe	Glu		
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Phe Gly Glu Trp	Cys Glu Phe Ser Pro	Tyr Glu Val Gly Phe	Pro		
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Lys Tyr Gly Ala	Phe Ile Pro Ser Glu	Leu Phe Gly Ser Glu	Phe		
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Phe Met Gly Gln	Leu Met Lys Arg Leu	Pro Glu Ser Arg Ile	Cys		
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Phe Leu Glu Gly	Ile Trp Ser Asn Leu	Tyr Ala Ala Asn Leu	Gln		
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Asp Ser Leu Tyr	Trp Ala Ser Glu Pro	Ser Gln Phe Trp Asp	Arg		
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Trp Val Arg Asn	Gln Ala Asn Leu Asp	Lys Glu Gln Val Pro	Leu		
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Leu Lys Ile Glu	Glu Pro Pro Ser Thr	Ala Gly Arg Ile Ala	Glu		
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Phe Phe Thr Asp	Leu Leu Thr Trp Arg	Pro Leu Ala Gln Ala	Thr		
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His Asn Phe Leu	Arg Gly Leu His Phe	His Lys Asp Tyr Phe	Gln		
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His Pro His Phe	Ser Thr Trp Lys Ala	Thr Thr Leu Asp Gly	Leu		
	425		430		435
Pro Asn Gln Leu	Thr Pro Ser Glu Pro	His Leu Cys Leu Leu	Asp		
	440		445		450
Val Gly Tyr Leu	Ile Asn Thr Ser Cys	Leu Pro Leu Leu Gln	Pro		
	455		460		465
Thr Arg Asp Val	Asp Leu Ile Leu Ser	Leu Asp Tyr Asn Leu	His		
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Gly Ala Phe Gln	Gln Leu Gln Leu Leu	Gly Arg Phe Cys Gln	Glu		
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Gln Gly Ile Pro	Phe Pro Pro Ile Ser	Pro Ser Pro Glu Glu	Gln		
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Leu Gln Pro Arg	Glu Cys His Thr Phe	Ser Asp Pro Thr Cys	Pro		
	515		520		525
Gly Ala Pro Ala	Val Leu His Phe Ser	Ser Gly Val Arg Arg	Thr		
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Pro Glu Glu Ala	Ala Ala Gly Glu Val	Asn Leu Ser Ser Ser	Asp		
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Ser Pro Tyr His	Tyr Thr Lys Val Thr	Tyr Ser Gln Glu Asp	Val		
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Asp Lys Leu Leu	His Leu Thr His Tyr	Asn Val Cys Asn Asn	Gln		
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Gly	Thr	Asp	Leu	Lys	Val	Gln	Phe	Leu	Leu	Phe	Val	Pro	Ser	Asn
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Pro	Ser	Cys	Gly	Gln	Leu	Val	Glu	Gly	Ser	Ser	Asp	Leu	Gln	Asn
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Ser	Gly	Phe	Asn	Ala	Thr	Leu	Gly	Thr	Lys	Leu	Ile	Ile	His	Gly
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Phe	Arg	Val	Leu	Gly	Thr	Lys	Pro	Ser	Trp	Ile	Asp	Thr	Phe	Ile
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Arg	Thr	Leu	Leu	Arg	Ala	Thr	Asn	Ala	Asn	Val	Ile	Ala	Val	Asp
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Trp	Ile	Tyr	Gly	Ser	Thr	Gly	Val	Tyr	Phe	Ser	Ala	Val	Lys	Asn
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Val	Ile	Lys	Leu	Ser	Leu	Glu	Ile	Ser	Leu	Phe	Leu	Asn	Lys	Leu
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Ser	Leu	Gly	Ala	His	Val	Gly	Gly	Met	Val	Gly	Gln	Leu	Phe	Gly
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Leu	Phe	Val	Glu	Ala	Ile	His	Thr	Asp	Thr	Asp	Asn	Leu	Gly	Ile
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Arg	Ile	Pro	Val	Gly	His	Val	Asp	Tyr	Phe	Val	Asn	Gly	Gly	Gln
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His	Leu	Lys	Glu	Leu	Arg	Asn	Lys	Asp	Thr	Asn	Ile	Glu	Val	Thr
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Arg Val Trp Lys Lys Asp Arg Thr Thr	Ile Ile Gly Lys Phe Cys				
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Thr Ala Leu Leu Pro Val Asn Asp Arg	Glu Lys Met Val Cys Leu				
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<213> Homo sapiens

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<223> GenBank ID No: g204319

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Leu Phe Lys Thr Gly Lys Arg Ala Asp Val Ser Tyr Gly Phe Tyr
             35             40             45
Gly Cys His Cys Gly Val Gly Gly Arg Gly Ser Pro Lys Asp Ala
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Thr Asp Trp Cys Cys Val Thr His Asp Cys Cys Tyr Asn Arg Leu
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Glu Lys Arg Gly Cys Gly Thr Lys Phe Leu Thr Tyr Lys Phe Ser
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Tyr Arg Gly Gly Gln Ile Ser Cys Ser Thr Asn Gln Asp Ser Cys
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<211> 748

<212> PRT

<213> Gallus gallus

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Leu	Met	Asp	Ala	Asn	Tyr	Val	Met	Asp	Glu	Thr	Leu	Gly	Met	Ala
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Gln	Leu	Thr	Phe	Asn	Asn	Val	Thr	Glu	Met	Thr	Leu	Glu	Leu	Ser
				125					130					135
Leu	Glu	Val	Cys	Ser	Ser	Thr	Asp	Leu	Arg	Phe	Ser	Met	Ala	Leu
				140					145					150
Cys	Asp	Glu	Glu	Lys	Lys	Phe	Arg	Gln	Gln	Arg	Lys	Asp	Asn	Ile
				155					160					165
Met	Gln	Ser	Met	Lys	Ser	Phe	Leu	Gly	Glu	Glu	Asn	Ser	Lys	Asn
				170					175					180
Leu	Thr	Thr	Ser	Arg	Asp	Val	Pro	Val	Ile	Ala	Val	Leu	Gly	Ser
				185					190					195
Gly	Gly	Gly	Phe	Arg	Ala	Met	Val	Gly	Phe	Ala	Gly	Val	Met	Lys
				200					205					210
Ala	Leu	Tyr	Glu	Ser	Gly	Val	Leu	Asp	Cys	Ala	Thr	Tyr	Ile	Ala
				215					220					225
Gly	Leu	Ser	Gly	Ser	Thr	Trp	Tyr	Met	Ser	Thr	Leu	Tyr	Ser	His
				230					235					240
Pro	Asp	Phe	Pro	Glu	Lys	Gly	Pro	Lys	Glu	Ile	Asn	Gln	Glu	Leu
				245					250					255
Met	Asn	Ser	Val	Ser	His	Asn	Pro	Leu	Leu	Leu	Leu	Thr	Pro	Gln
				260					265					270
Lys	Val	Lys	Arg	Tyr	Ile	Glu	Ala	Leu	Trp	Asn	Lys	Lys	Ser	Ser
				275					280					285
Gly	Gln	Pro	Val	Thr	Phe	Thr	Asp	Ile	Phe	Gly	Met	Leu	Ile	Gly
				290					295					300
Glu	Thr	Leu	Ile	His	Asn	Arg	Met	Asp	Thr	Thr	Leu	Ser	Asp	Met
				305					310					315
Lys	Glu	Lys	Val	Ser	Glu	Ala	Gln	Cys	Ala	Leu	Pro	Leu	Phe	Thr
				320					325					330
Cys	Leu	His	Val	Lys	Pro	Asp	Val	Ser	Glu	Leu	Met	Phe	Ala	Asp
				335					340					345
Trp	Val	Glu	Phe	Ser	Pro	Tyr	Glu	Ile	Gly	Met	Ala	Lys	Tyr	Gly
				350					355					360
Thr	Phe	Met	Ser	Pro	Asp	Leu	Phe	Gly	Ser	Lys	Phe	Phe	Met	Gly

				365					370				375	
Thr	Val	Val	Lys	Lys	Tyr	Ser	Glu	Asn	Pro	Leu	His	Phe	Leu	Met
				380					385					390
Gly	Val	Trp	Gly	Ser	Ala	Phe	Ser	Ile	Leu	Phe	Asn	Arg	Val	Leu
				395					400					405
Gly	Val	Ser	Asn	Ser	Gln	Asn	Lys	Gly	Pro	Thr	Met	Glu	Glu	Glu
				410					415					420
Leu	Glu	Asn	Ile	Arg	Leu	Lys	His	Leu	Val	Ser	Asn	Asp	Ser	Ser
				425					430					435
Asp	Ser	Glu	Asp	Glu	Ser	Gln	His	Pro	Lys	Gly	Thr	Glu	Asn	Ser
				440					445					450
Glu	Ala	Asn	Glu	Glu	Tyr	Gln	Asn	Ser	Ser	Gln	Glu	Ser	Trp	Val
				455					460					465
Gln	Arg	Met	Leu	Met	Ala	Leu	Val	Gly	Asp	Ser	Ala	Leu	Phe	Asn
				470					475					480
Thr	Arg	Glu	Gly	Arg	Ala	Gly	Lys	Val	His	Asn	Phe	Met	Leu	Gly
				485					490					495
Leu	Asn	Leu	Asn	Ser	Cys	Tyr	Pro	Leu	Ser	Pro	Leu	Ala	Asp	Leu
				500					505					510
Leu	Thr	Gln	Glu	Ser	Val	Glu	Glu	Asp	Glu	Leu	Asp	Ala	Ala	Val
				515					520					525
Ala	Asp	Pro	Asp	Glu	Phe	Glu	Arg	Ile	Tyr	Glu	Pro	Leu	Asp	Val
				530					535					540
Lys	Ser	Lys	Lys	Ile	His	Ile	Val	Asp	Ser	Gly	Leu	Thr	Phe	Asn
				545					550					555
Leu	Pro	Tyr	Pro	Leu	Ile	Leu	Arg	Pro	Gln	Arg	Gly	Val	Asp	Leu
				560					565					570
Ile	Ile	Ser	Phe	Asp	Phe	Ser	Ala	Arg	Pro	Ser	Asp	Ser	Ser	Pro
				575					580					585
Pro	Phe	Lys	Glu	Ile	Leu	Leu	Ala	Glu	Lys	Trp	Ala	Lys	Met	Asn
				590					595					600
Lys	Leu	Pro	Phe	Pro	Lys	Ile	Asp	Pro	Asn	Val	Phe	Asp	Arg	Glu
				605					610					615
Gly	Leu	Lys	Glu	Cys	Tyr	Val	Phe	Lys	Pro	Lys	Asp	Thr	Ser	Ser
				620					625					630
Glu	Lys	Asp	Cys	Pro	Thr	Ile	Ile	His	Phe	Val	Leu	Ala	Asn	Ile
				635					640					645
Asn	Phe	Arg	Lys	Tyr	Lys	Ala	Pro	Gly	Leu	Pro	Arg	Glu	Ser	Lys
				650					655					660
Glu	Glu	Lys	Asp	Phe	Ala	Asp	Phe	Asp	Ile	Phe	Asp	Asp	Pro	Asn
				665					670					675
Thr	Pro	Phe	Ser	Thr	Phe	Asn	Phe	Gln	Tyr	Pro	Asn	Glu	Ala	Phe
				680					685					690
Lys	Arg	Leu	His	Asp	Leu	Met	Glu	Phe	Asn	Thr	Leu	Asn	Asn	Leu
				695					700					705
Asp	Val	Ile	Lys	Gln	Ala	Met	Met	Glu	Ser	Ile	Glu	Tyr	Arg	Lys
				710					715					720
Glu	Asn	Pro	Ser	Arg	Cys	Ser	Val	Ser	Leu	Ser	Ser	Val	Glu	Ala
				725					730					735
Arg	Arg	Phe	Phe	Asn	Lys	Asn	Asn	Leu	Asn	Asn	His	Thr		
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<212> PRT

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> GenBank ID No: g1817556

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Leu	Leu	Trp	Leu	Ser	Ile	Gly	Arg	Ser	Gly	Asn	Val	Pro	Pro	Thr	20	25	30	
Thr	Gln	Pro	Lys	Cys	Thr	Asp	Phe	Gln	Ser	Ala	Asn	Leu	Leu	Arg	35	40	45	
Gly	Thr	Asn	Leu	Lys	Val	Gln	Phe	Leu	Leu	Phe	Thr	Pro	Ser	Asp	50	55	60	
Pro	Gly	Cys	Gly	Gln	Leu	Val	Glu	Glu	Asp	Ser	Asp	Ile	Arg	Asn	65	70	75	
Ser	Glu	Phe	Asn	Ala	Ser	Leu	Gly	Thr	Lys	Leu	Ile	Ile	His	Gly	80	85	90	
Phe	Arg	Ala	Leu	Gly	Thr	Lys	Pro	Ser	Trp	Ile	Asn	Lys	Phe	Ile	95	100	105	
Arg	Ala	Leu	Leu	Arg	Ala	Ala	Asp	Ala	Asn	Val	Ile	Ala	Val	Asp	110	115	120	
Trp	Val	Tyr	Gly	Ser	Thr	Gly	Met	Tyr	Phe	Ser	Ala	Val	Glu	Asn	125	130	135	
Val	Val	Lys	Leu	Ser	Leu	Glu	Ile	Ser	Arg	Phe	Leu	Ser	Lys	Leu	140	145	150	
Leu	Glu	Leu	Gly	Val	Ser	Glu	Ser	Ser	Ile	His	Ile	Ile	Gly	Val	155	160	165	
Ser	Leu	Gly	Ala	His	Val	Gly	Gly	Met	Val	Gly	His	Phe	Tyr	Lys	170	175	180	
Gly	Gln	Leu	Gly	Arg	Ile	Thr	Gly	Leu	Asp	Pro	Ala	Gly	Pro	Glu	185	190	195	
Tyr	Thr	Arg	Ala	Ser	Leu	Glu	Glu	Arg	Leu	Asp	Ser	Gly	Asp	Ala	200	205	210	
Leu	Phe	Val	Glu	Ala	Ile	His	Thr	Asp	Thr	Asp	Asn	Leu	Gly	Ile	215	220	225	
Arg	Ile	Pro	Val	Gly	His	Val	Asp	Tyr	Phe	Val	Asn	Gly	Gly	Gln	230	235	240	
Asp	Gln	Pro	Gly	Cys	Pro	Ala	Phe	Ile	His	Ala	Gly	Tyr	Ser	Tyr	245	250	255	
Leu	Ile	Cys	Asp	His	Met	Arg	Ala	Val	His	Leu	Tyr	Ile	Ser	Ala	260	265	270	
Leu	Glu	Asn	Thr	Cys	Pro	Leu	Met	Ala	Phe	Pro	Cys	Ala	Ser	Tyr	275	280	285	
Lys	Ala	Phe	Leu	Ala	Gly	Asp	Cys	Leu	Asp	Cys	Phe	Asn	Pro	Phe	290	295	300	
Leu	Leu	Ser	Cys	Pro	Arg	Ile	Gly	Leu	Val	Glu	Arg	Gly	Gly	Val	305	310	315	
Lys	Ile	Glu	Pro	Leu	Pro	Lys	Glu	Val	Arg	Val	Tyr	Leu	Gln	Thr	320	325	330	
Thr	Ser	Ser	Ala	Pro	Tyr	Cys	Val	His	His	Ser	Leu	Val	Glu	Phe	335	340	345	
Asn	Leu	Lys	Glu	Lys	Arg	Lys	Lys	Asp	Thr	Ser	Ile	Glu	Val	Thr	350	355	360	
Phe	Leu	Gly	Asn	Asn	Val	Thr	Ser	Ser	Val	Lys	Ile	Thr	Ile	Pro				

	365		370		375
Lys Asp His Leu	Glu Gly Arg Gly Ile	Ile Ala His Gln Asn Pro			
	380		385		390
His Cys Gln Ile	Asn Gln Val Lys Leu	Lys Phe His Ile Ser Ser			
	395		400		405
Arg Val Trp Arg	Lys Asp Arg Thr Pro	Ile Val Gly Thr Phe Cys			
	410		415		420
Thr Ala Pro Leu	Pro Val Asn Asp Ser	Lys Lys Thr Val Cys Ile			
	425		430		435
Pro Glu Pro Val	Arg Leu Gln Val Ser	Met Ala Val Leu Arg Asp			
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Leu Lys Met Ala Cys Val					
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